## **REMARKS**

Claims 1-34 are pending. Claims 18, 27 and 33 have been amended. Reconsideration and allowance of the pending claims is respectfully requested.

## 35 U.S.C. § 102(e) Claim Rejections

Claims 1-34 were rejected under 35 U.S.C. § 102(e) as being anticipated by U.S. Patent No. 6,742,015 to Bowman-Amuah (hereinafter "Bowman-Amuah"). The Applicant respectfully disagrees.

Claim 1 recites a server system having "one or more computers" and "an application executing on the computers to handle client requests", "the application comprising: a business logic layer to process the client requests according to a particular business domain and produce replies to be returned to the clients in response to the client requests" and "a presentation layer separate from, but in communication with, the business logic layer to structure the replies in a manner that makes the replies presentable on different types of client devices." Bowman-Amuah does not disclose, teach, or suggest these aspects.

Bowman-Amuah describes base services patterns in a netcentric environment. Although Bowman-Amuah describes "business logic" and "presentation logic", the presentation logic of Bowman-Amuah is limited to implementation on the client, as shown by the following excerpts:

At a minimum, a two-tiered client/server architecture assumes that an application's presentation logic resides on the client and its data management logic resides on the server. See Bowman-Amuah, Col. 33, Lines 24-27 (emphasis added).

Three-tiered architecture describes a distributed application architecture in which business applications are separated into three logical components: presentation and control,

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application logic, and data management. These logical components are "clean layered" such that each runs on a different machine or platform, and communicates with the other components via a network. See Bowman-Amuah, Col. 33, Lines 59-65.

As shown in the above excerpted portions, in each architecture described in Bowman-Amuah, the execution of the presentation logic is performed on the client. Accordingly, Bowman-Amuah does not disclose, teach or suggest execution of the presentation logic on a server. Claim 1, however, recites a "server system" having "one or more computers", and "an application executing on the computers to handle client requests" having "a business logic layer to process the client requests" and "a presentation layer separate from, but in communication with, the business logic layer to structure the replies in a manner that makes the replies presentable on different types of client devices." Accordingly, for at least this reason, claim 1 is not anticipated by Bowman-Amuah and therefore allowance of claim 1 is respectfully requested.

Claims 2-11 are dependent claims which depend either directly or indirectly from claim 1. Accordingly, these claims are allowable for at least this reason. Additionally, these claims are also allowable for their own recited features, which are not disclosed, taught or suggested by Bowman-Amuah. For example, the portion of Bowman-Amuah referenced by the Office in the rejection of Claim 5 recites "a NCC application can execute within a client that can run on multiple operating system and hardware platforms". See Bowman-Amuah, Col. 32, Lines 51-53. Neither this referenced portion, nor the other referenced portion cited by the Office disclose, teach or suggest "wherein the different types of client devices support different data formats, the presentation layer being configured to select appropriate data formats for encoding the replies" as recited by Claim 5. As

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before, the referenced portion of Bowman-Amuah is again limited to execution on the client and does not disclose, teach or suggest execution on the server.

Likewise, Claim 6 recites "wherein the different types of client devices support different communication protocols, the presentation layer being configured to select appropriate communication protocols for delivering the replies to the clients", which is not disclosed, taught or suggest by Bowman-Amuah. Rather, the portion referenced by the Office (e.g., Bowman-Amuah, Col. 37, Lines 54-63) merely recites the use of protocols to communicate with a database, but does not disclose, teach or suggest the selection of appropriate communication protocols by the presentation layer. Further, Claim 9 recites "a request dispatcher to structure a reply for service back to a client device" which is not disclosed, taught or suggest by Bowman-Amuah. Accordingly, allowance of claims 2-11 is respectfully requested.

Claim 12 recites "[i]n a server application that receives client requests for a problem domain and has at least one problem solving module to generate replies to be served back to clients, a presentation module separate from the problem solving module" having "a presentation component to construct how a reply will appear" and "a rendering component to configure how the reply is output on a particular client" which is not disclosed, taught or suggested by Bowman-Amuah.

The Office asserts the following excerpts of Bowman-Amuah for disclosure of the above recited features:

The Netcentric Architecture Framework identifies those runtime services required when an application executes in a Netcentric environment. As shown in FIG. 10, the services can be broken down into logical areas: Presentation Services 1000, Information Services 1002,1004, Communication Services 1006,1008, Communication Fabric Services 1010,

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Transaction Services 1012,1014, Environment Services 1016,1018, Base Services 1020 and Business Logic 1022,1024. See Bowman-Amuah, Col. 31, Lines 52-60.

Presentation Services enable an application to manage the human-computer interface. This includes capturing user actions and generating resulting events, presenting data to the user, and assisting in the management of the dialog flow of processing. FIG. 13 illustrates several components of the Presentation area of the Netcentric Architecture Framework. See Bowman-Amuah, Col. 34, Lines 62-67.

Three-tiered architecture describes a distributed application architecture in which business applications are separated into three logical components: presentation and control, application logic, and data management. These logical components are "clean layered" such that each runs on a different machine or platform, and communicates with the other components via a network. See Bowman-Amuah, Col. 33, Lines 59-65.

However, as shown in the above excerpts and elsewhere in Bowman-Amuah, the presentation logic in Bowman-Amuah is executed on the client, an example of which is shown in corresponding FIG. 10 of Bowman-Amuah.

Thus, as stated above in relation to Claim 1, Bowman-Amuah limits execution of the presentation logic to the client. However, Claim 12 recites "a server application" having "a presentation component" and "a rendering component to configure how the reply is output on a particular client" which is not disclosed, taught or suggested by Bowman-Amuah. Accordingly, for at least these reasons, Claim 12 is not anticipated by Bowman-Amuah and withdrawal of the rejection is respectfully requested.

Claims 13-17 are dependent claims which depend either directly or indirectly from claim 12. Accordingly, these claims are allowable for at least this reason. Additionally, these claims are also allowable for their own recited

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features, which are not disclosed, taught or suggested by Bowman-Amuah. For example, Claim 16 recites "wherein the clients support different communication protocols, the presentation component being configured to select an appropriate communication protocol for delivering the reply to the particular client." (emphasis added). The presentation logic of Bowman-Amuah, however, is limited to execution on the client. Accordingly, withdrawal of the rejections with respect to Claims 13-17 is respectfully requested.

Claim 18 has been amended, and as amended (portion of the amended material appear in bold/italics below) recites a computer software architecture embodied on one or more computer-readable media, comprising:

- a presentation tier to determine how data for communication to a client device is to be presented on the client device; and
- a rendering tier, separate from the presentation tier, to determine how to render the data on the client device.

Support for the amendment may be found throughout the specification and drawings as filed. As previously described in relation to Claims 1 and 12, Bowman-Amuah limits execution of the presentation logic on the client. Accordingly, Claim 18 is allowable over Bowman-Amuah. Withdrawal of the rejection is respectfully requested.

Claims 19-23 are dependent claims which depend directly from claim 18. Accordingly, these claims are allowable for at least this reason. Additionally, these claims are also allowable for their own recited features, which are not disclosed, taught or suggested by Bowman-Amuah. For example, Claim 22 recites "wherein the presentation tier comprises multiple dispatchers, each dispatcher being configured to package the data according to a particular

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communications protocol" which is not disclosed, taught or suggested by Bowman-Amuah. Accordingly, withdrawal of the rejections with respect to Claims 19-23 is respectfully requested.

Claim 24 recites an architecture comprising "a tag library containing preconstructed tags for a variety of data formats", "multiple request dispatchers to structure replies to be returned to client devices in response to requests submitted by the client devices, individual request dispatcher formatting data according to particular formats that are supported by the client devices", and "content renderer to conform the replies to output capabilities of the client devices to which the replies are to be returned". Bowman-Amuah does not disclose, teach or suggest these aspects. The Office references various sections of Bowman-Amuah (e.g., FIG. 10, Columns 249-250, and column 72, lines 20-25) for teaching the "multiple request dispatchers" recited above. However, these sections merely describe various standards, such as RTP. Claim 24, however, recites "multiple request dispatchers" such that an "individual request dispatcher formatting data according to particular formats that are supported by the client devices" which is not disclosed, taught or suggest by Bowman-Amuah. Accordingly, Claim 24 is not anticipated by Bowman-Amuah and withdrawal of the rejection is respectfully requested.

Claims 25-26 are dependent claims which depend directly from claim 24. Accordingly, these claims are allowable for at least this reason. Additionally, these claims are also allowable for their own recited features, which are not disclosed, taught or suggested by Bowman-Amuah. For example, Claim 25 recites "wherein individual request dispatchers are further configured to select communication protocols to be used to serve the replies back to the client devices"

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which is not disclosed, taught or suggested by Bowman-Amuah. Accordingly, withdrawal of the rejections with respect to Claims 25-26 is respectfully requested.

Claim 27 has been amended, and as amended (portion of the amended material appear in bold/italics below) recites a method comprising:

- receiving a reply generated by a server application in response to a client request;
- structuring the reply to define how the reply will appear when communicated to and presented at the client; and
- independent of said structuring, conforming the reply to output capabilities of the client.

Support for the amendment may be found throughout the specification and drawings as filed. As previously described in relation to Claims 1 and 12, execution of the presentation logic in Bowman-Amuah is limited to being performed on the client. Accordingly, Claim 27 is allowable over Bowman-Amuah. Withdrawal of the rejection is respectfully requested.

Claims 28-32 are dependent claims which depend directly from claim 27. Accordingly, these claims are allowable for at least this reason. Additionally, these claims are also allowable for their own recited features, which are not disclosed, taught or suggested by Bowman-Amuah. For example, Claim 32 recites "wherein the configuring comprising sizing the reply for a display at the client" which is not disclosed, taught or suggested by Bowman-Amuah. Accordingly, withdrawal of the rejections with respect to Claims 28-32 is respectfully requested.

Claim 33 has been amended, and as amended (portion of the amended material appear in bold/italics below) recites one or more computer-readable media comprising computer-executable instructions that, when executed, direct an application server to:

- generate replies in response to client requests, the client requests being submitted by diverse client devices that support different data formats and different communication protocols; and
- structure the replies to define how the replies will appear when communicated to and presented on the client devices and independently form individual replies for output capabilities of the client devices so that the replies are encoded to comply with the data formats supported by the client devices and are sent using the communication protocols of the client devices.

Support for the amendment may be found throughout the specification and drawings as filed. As previously described in relation to Claims 1 and 12, Bowman-Amuah limits execution of the presentation logic on the client. Accordingly, Claim 33 is allowable over Bowman-Amuah. Withdrawal of the rejection is respectfully requested.

Claim 34 is a dependent claim which depends directly from claim 33. Accordingly, this claim is allowable for at least this reason. Additionally, this claim is also allowable for its own recited features, which are not disclosed, taught or suggested by Bowman-Amuah. Accordingly, withdrawal of the rejection with respect to Claim 34 is respectfully requested.

## **Conclusion**

All objections and rejections raised in the Office Action have been addressed. Accordingly, it is respectfully submitted that the present application is in condition for allowance and such allowance is respectfully solicited. Examiner is urged to contact the undersigned if any issues remain unresolved by this response.

Respectfully Submitted,

Dated: u/4/on

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